Matsumoto [45] Oct. 30, 1979

[54]	DEVICE TO CONTROL INTRODUCTION OF DIFFRACTED BEAM BY MEANS OF DIFFRACTION ELEMENT		[58] Field of Search	
[7 5]	Inventor: Kazuya Matsumoto, Yokohama, Japan	U.S. PATENT DOCUMENTS		
[73]	Assignee:	Canon Kabushiki Kaisha, Tokyo,	3,280,714 10/1966 Günther et al	
[21]	Appl. No.:	Japan 812,778	Primary Examiner—Richard A. Wintercorn Attorney, Agent, or Firm—Toren, McGeady and Stanger	
[22]	Filed:	Jul. 5, 1977	[57] ABSTRACT	
Related U.S. Application Data		ted U.S. Application Data	According to the present invention in the image form- ing light path a direction-selective diffraction element is	
[63]	63] Continuation of Ser. No. 422,337, Dec. 6, 1973, abandoned.		provided in such a manner that the image forming beam having entered into said diffraction element is diffracted by means of the diffraction grating structure of said diffraction element and divided into a plurality of	
[30]	[30] Foreign Application Priority Data			
Dec. 11, 1972 [JP] Japan			beams, whereby at least one of the diffracted beams is led to a photo detecting device while the not diffracted beam is made use of as the image forming beam. 14 Claims, 30 Drawing Figures	
[51] Int. Cl. ²				

